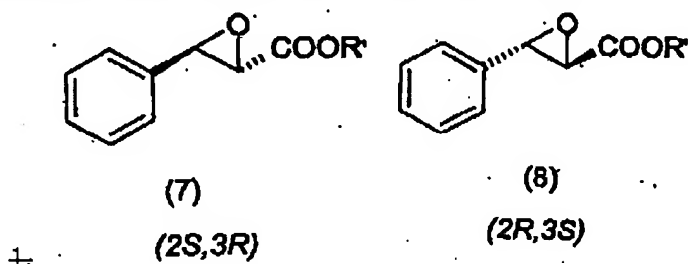


Amendments to the Claims

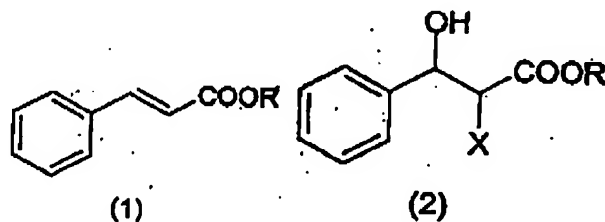
Please enter the amendments to the claims as follows. This represents a complete listing of the claims and supercedes any previous listings thereof.

1. (Currently Amended) A stereoselective chemoenzymatic process for the synthesis of optically enriched trans alkyl phenylglycidate in its enantiomeric forms alkyl(2*S*,3*R*)-phenylglycidate and alkyl(2*R*,3*S*)-phenylglycidate of formulae 7 and 8

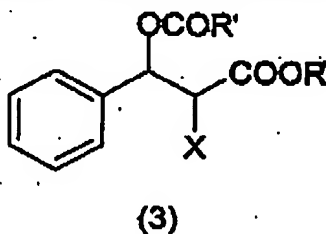


respectively, wherein said process comprises steps of,

- a. halogenating alkyl cinnamate of formula 1 by action of a ~~halogenating~~ halogenating agent to obtain halohydrins of formula 2, where ~~X~~ X represents bromine or iodine, and R' represents C-1 to C-5 alkyl group.

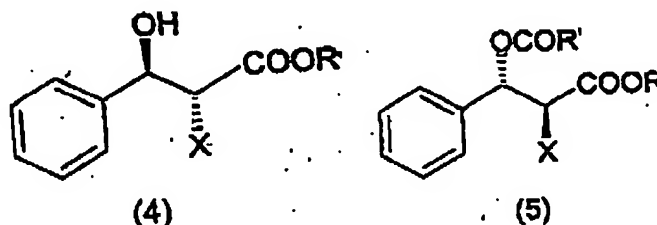


- b. acylating the halohydrins of formula 2 using an acyl anhydride in presence of a base to trans alkyl 3-acyloxy-2-halo-3-phenylpropanoates of formula 3-;

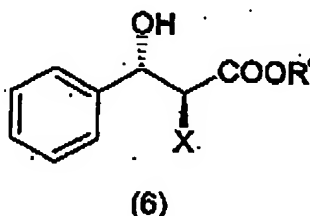


a-

- c. incubating the trans alkyl 3-acyloxy-2-halo-3-phenylpropanoates of formula 3 with dry powder of the lipase in an aqueous buffer phase optionally in presence of an organic medium at a temperature range of 10-40°C for the time duration in the range of 30-55 hr. to facilitate the reaction to get hydrolysed alkyl(2*R*,3*R*)-2-halo-3-hydroxy-3- phenylpropanoates of formula 4 and unhydrolysed alkyl(2*S*,3*S*)-3-acyloxy-2-halo-3-phenylpropanoates of formula 5;



- e. d. separating the hydrolysed alkyl(2*R*,3*R*)-2-halo-3-hydroxy-3- phenylpropanoates of formula 4 and unhydrolysed alkyl(2*S*,3*S*)-3-acyloxy-2-halo-3-phenylpropanoates of formula 5 by conventional method of chromatography[.];
- d. e. incubating the optically enriched unhydrolysed phenyl propanoates of formula 5 with crude dry powder of lipase from *Aspergillus niger* in an aqueous buffer phase in presence of an organic solvent to further improve the enantiopurity;
- e. f. reacting the optically enriched products of formula 5 with an acid to furnish optically enriched alkyl (2*S*,3*S*) 2-halo-3-hydroxy-3-phenylpropanoate of formula 6, and



- f. g. treating the compounds of formulae 4 and 6 with an alkali or an acid in an organic or aqueous phase which leads the formation of epoxide ring by cyclisation to furnish optically enriched alkyl(2*S*,3*R*)-phenylglycidate and alkyl(2*R*,3*S*)-phenylglycidate of formulae 7 and 8 respectively.
2. (Original) A process as claimed in claim 1, wherein the halogenating agent used for the preparation of trans halohydrin of formula 2 are selected from a group comprising N-

halosuccinimide such as N-bromosuccinimide, N-iodosuccinimide or sodium bromate, periodic acid, 1,3-dibromo-5,5-dimethyl hydantoin, iodine and bromine.

3. (Currently Amended) A process as claimed in claims 2, wherein the halohydroxylation process is effected in aqueous phase, or in an organic phase, or in aqueous organic phase, where the organic phase is selected from comprises water miscible solvents ~~such as acetone, tetrahydrofuran, dioxane, dimethyl formamide, methanol and the like.~~
4. (Original) A process as claimed in claim 3, wherein the halohydroxylation process is effected at a temperature between 0-60°C.
5. (Currently Amended) A process as claimed in claim 1 wherein the acylating agent is selected from acyl anhydrides, comprising ~~acetic anhydride, propionic anhydride, butyric anhydride or corresponding acyl chlorides.~~
6. (Original) A process as claimed in claim 1 wherein the base is selected from the group consisting of pyridine, and N,N-dimethyl aminopyridine (DMAP).
7. (Original) A process as claimed in claim 1 wherein enzyme lipase is from crude dry powder of *Aspergillus niger*.
8. (Original) A process as claimed in claim 1 wherein the crude dry powder of lipase from *Aspergillus niger* is used to effect the kinetic resolution.
9. (Original) A process as claimed in claim 1, wherein the aqueous phosphate buffer has the pH in the range of 5 to 7.5.

10. (Currently Amended) A process as claimed in claims 1, wherein stereospecific hydrolysis is most suitably carried out in presence of an organic cosolvent ~~such as~~ selected from the group consisting of hexane, toluene, dichloromethane, acetone, acetonitrile, dimethylformamide, dimethyl sulphoxide, methanol and ethanol, wherein the organic cosolvent is at 10-90% concentration.

11. (Currently Amended) A process as claimed in claims 1, wherein the stereospecific hydrolysis is effected suitably at a temperature of about 30°C.

12. (Currently Amended) A process as claimed in claims 1, wherein the incubation period is about 48 ~~hr~~ hours.

13. (Currently Amended) A process as claimed in claims, 1 wherein the cyclisation to optically enriched glycidate of formula 7 is effected ~~most suitably~~ in presence of an organic or inorganic base ~~such as sodium hydroxide, sodium carbonate.~~

14. (Currently Amended) A process as claimed in claim 1 wherein ~~organic bases are selected from the cyclisation is effected in the presence of an organic base selected from the group consisting of triethylamine, piperidine, 1,4-diazabicyclo[2,2,2]octane (DABCO); and 1,8-diazabicyclo[5,4,0]undec-7-ene (DBU).~~

15. (Currently Amended) A process as claimed in claims 1, wherein the cyclisation to optically enriched glycidate of formula 8 is effected most suitably in presence of an ~~organic or inorganic acid such as~~ selected from the group consisting of hydrochloric acid, sulfuric acid or trifluoro acetic acid~~[[,]] and boron trifluoride (BF₃) and the like.~~

16. (Currently Amended) A process as claimed in claim~~[[s]]~~ 1, wherein the products of the formula 7 has enantiomeric excess in the range of 86-95%.

17. (Currently Amended) A process as claimed in claim~~[[s]]~~ 1, wherein the products of the formula 8 has enantiomeric excess in the range of 60-99.5%.

18. (New) A process as claimed in claim 23, wherein the organic phase is acetone, tetrahydrofuran, dioxane, dimethyl formamide, or methanol.

19. (New) A process of claim 5, wherein the acylating agent is acetic anhydride; propionic anhydride, butyric anhydride or acyl chlorides thereof.

20. (New) A process of claim 1, wherein the cyclisation to optically enriched glycidate of formula 7 is affected in the presence of sodium hydroxide, sodium carbonate or a combination thereof.